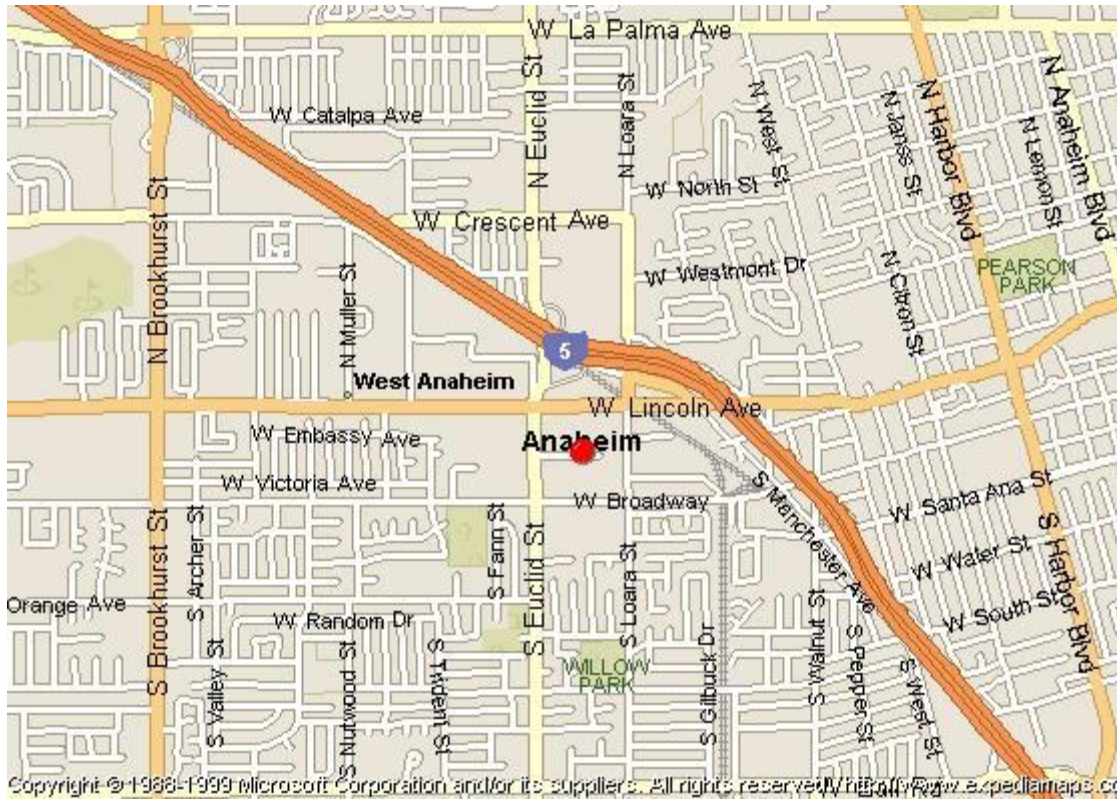


South Coast AQMD

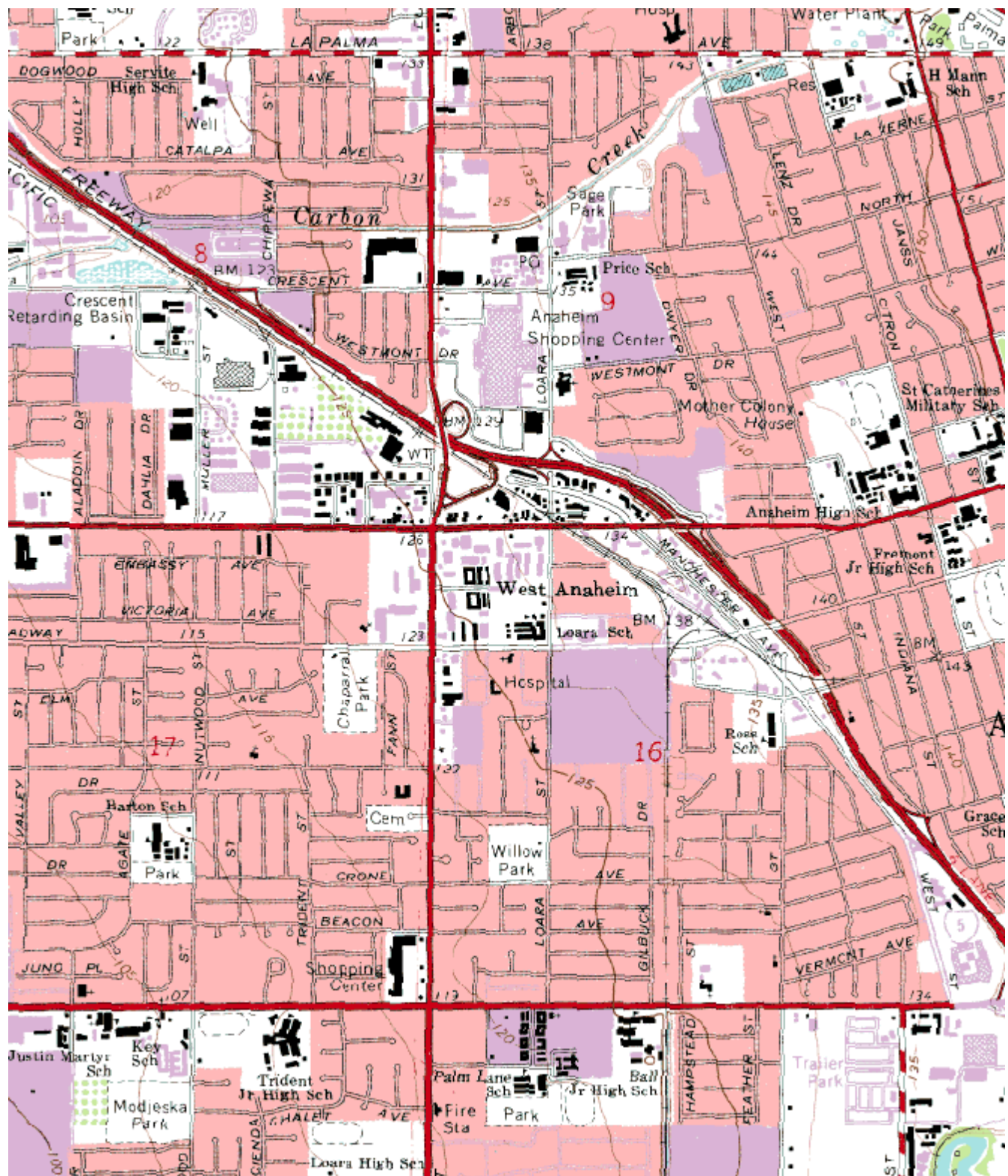
Site Survey Report for Anaheim-Loara School

Last updated: May, 2017



| AQS ID | ARB Number | Site Start Date | Reporting Agency and Agency Code |
|----------|------------|-----------------|----------------------------------|
| 06059007 | 30178 | 08/2001 | South Coast AQMD (061) |

| Site Address | County | Air Basin | Latitude | Longitude | Elevation |
|-------------------------------------|--------|-------------|--------------|---------------|-----------|
| 1630 Pampas Ln Anaheim, CA 92802 | Orange | South Coast | 33° 49' 50"N | 117° 56' 18"W | 39 |



Detailed Site Information

| | | | | |
|---|---|---------------------|---------------------|---------------------|
| Local site name | Anaheim-Loara School | | | |
| AQS ID | 060590007 | | | |
| GPS coordinates (decimal degrees) | Latitude: 33° 49' 50" Longitude: 117° 56' 18" | | | |
| Street Address | 1630 Pampas Ln, Anaheim, CA 92802 | | | |
| County | Orange | | | |
| Distance to roadways (meters) | 7.5 – 10.5; 420 meters | | | |
| Traffic count (AADT, year) | < 500 / 2012; I-5/Euclid, 256,000, I-5, 2011 | | | |
| Groundcover (e.g. asphalt, dirt, sand) | Grass | | | |
| Representative statistical area name (i.e. MSA, CBSA, other) | 31080-Los Angeles-Long Beach-Anaheim, MSA | | | |
| Pollutant, POC | Carbon Monoxide, 1 | Nitrogen Dioxide, 5 | Ozone, 1 | PM10, 1 |
| Primary / QA Collocated / Other | N/A | N/A | N/A | Primary |
| Parameter code | 42101 | 42602 | 44201 | See Table 26 |
| Basic monitoring objective(s) | NAAQS | NAAQS | NAAQS | NAAQS |
| Site type(s) | Population Exposure | Population Exposure | Population Exposure | Population Exposure |
| Monitor (type) | SLAMS | SLAMS | SLAMS | SLAMS |
| Network Affiliation | N/A | N/A | N/A | N/A |
| Instrument manufacturer and model | Horiba APMA 370 | Thermo 42i | Thermo 49i | GMW 1200 SSI |
| Method code | 158 | 074 | 047 | 063, 102 |
| FRM/FEM/ARM/ other | FRM | FRM | FEM | FRM |
| Collecting Agency | SCAQMD | SCAQMD | SCAQMD | SCAQMD |
| Analytical Lab (i.e. weigh lab, toxics lab, other) | N/A | N/A | N/A | SCAQMD |
| Reporting Agency | SCAQMD | SCAQMD | SCAQMD | SCAQMD |
| Spatial scale (e.g. micro, neighborhood) | Neighborhood | Urban | Neighborhood | Neighborhood |
| Monitoring start date (MM/DD/YYYY) | 08/2001 | 08/2001 | 08/2001 | 08/2001 |
| Current sampling frequency (e.g. 1:3, continuous) | 1:1 | 1:1 | 1:1 | 1:6 |
| Calculated sampling frequency (e.g. 1:3/1:1) | N/A | N/A | N/A | 1:6 |
| Sampling season (MM/DD-MM/DD) | 01/01-12/31 | 01/01-12/31 | 01/01-12/31 | 01/01-12/31 |
| Probe height (meters) | 4.5 | 4.5 | 4.5 | 3.5 |
| Distance from supporting structure (meters) | 2.0 | 2.0 | 2.0 | 2.0 |
| Distance from obstructions on roof (meters) | N/A | N/A | N/A | N/A |

| | | | | |
|--|---------------|---------------|---------------|--------------------------|
| Distance from obstructions not on roof (meters) | N/A | N/A | N/A | N/A |
| Distance from trees (meters) | 6 (palm tree) | 6 (palm tree) | 6 (palm tree) | 6 (palm tree) |
| Distance to furnace or incinerator flue (meters) | N/A | N/A | N/A | N/A |
| Distance between collocated monitors (meters) | N/A | N/A | N/A | 2.8 |
| Unrestricted airflow (degrees) | 360° | 360° | 360° | 360° |
| Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon) | Teflon | Teflon | Teflon | N/A |
| Residence time for reactive gases (seconds) | 5.6 | 6.8 | 6.7 | N/A |
| Will there be changes within the next 18 months? (Y/N) | No | No | No | No |
| Is it suitable for comparison against the annual PM2.5? (Y/N) | N/A | N/A | N/A | N/A |
| Frequency of flow rate verification for manual PM samplers | N/A | N/A | N/A | Monthly |
| Frequency of flow rate verification for automated PM analyzers | N/A | N/A | N/A | N/A |
| Frequency of one-point QC check for gaseous instruments | Nightly | Nightly | Nightly | N/A |
| Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) | 06/01/2016 | 06/01/2016 | 06/01/2016 | N/A |
| Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY) | N/A | N/A | N/A | 04/21/2016 11/10/2016 |

| | | | | |
|---------------------------------|--------------------|---------------------|---------------------|------------------|
| Pollutant, POC | Continuous PM10, 3 | Continuous PM2.5, 3 | Speciated PM2.5, 11 | 24 Hour PM2.5, 1 |
| Primary / QA Collocated / Other | Other | Other | Other | Primary |
| Parameter code | 81102 | 88502 | See Table 26 | See Table 26 |
| Basic monitoring objective(s) | NAAQS | NAAQS | NAAQS | NAAQS |

| | | | | |
|---|---------------------|---------------------|------------------------------------|---------------------|
| Site type(s) | Population Exposure | Population Exposure | Population Exposure | Population Exposure |
| Monitor (type) | SLAMS | SLAMS | SLAMS | SLAMS |
| Network Affiliation | N/A | N/A | N/A | N/A |
| Instrument manufacturer and model | Met One BAM 1020 | Met One BAM 1020 | Met One SASS | Andersen RAAS PM2.5 |
| Method code | 122 | 170 | See Table 26 | 780, 120 |
| FRM/FEM/ARM/ other | FEM | FEM | Other | FRM |
| Collecting Agency | SCAQMD | SCAQMD | SCAQMD | SCAQMD |
| Analytical Lab (i.e. weigh lab, toxics lab, other) | N/A | N/A | SCAQMD | SCAQMD |
| Reporting Agency | SCAQMD | SCAQMD | SCAQMD | SCAQMD |
| Spatial scale (e.g. micro, neighborhood) | Neighborhood | Neighborhood | Neighborhood | Neighborhood |
| Monitoring start date (MM/DD/YYYY) | 03/04/2010 | 08/2001 | 08/2001 | 08/2001 |
| Current sampling frequency (e.g. 1:3, continuous) | 1:1 | 1:1 | 1:6 | 1:1 |
| Calculated sampling frequency (e.g. 1:3/1:1) | N/A | N/A | No CFR mandated sampling schedule. | 1:3 |
| Sampling season (MM/DD-MM/DD) | 01/01-12/31 | 01/01-12/31 | 01/01-12/31 | 01/01-12/31 |
| Probe height (meters) | 4.8 | 4.8 | 2.9 | 2.9 |
| Distance from supporting structure (meters) | 2.2 | 2.2 | 2.2 | 2.0 |
| Distance from obstructions on roof (meters) | N/A | N/A | N/A | N/A |
| Distance from obstructions not on roof (meters) | N/A | N/A | N/A | N/A |
| Distance from trees (meters) | 6 (palm tree) | 6 (palm tree) | 6 (palm tree) | 6 (palm tree) |
| Distance to furnace or incinerator flue (meters) | N/A | N/A | N/A | N/A |
| Distance between collocated monitors (meters) | 2.8 | 3.9 | N/A | 3.9 |
| Unrestricted airflow (degrees) | 360° | 360° | 360° | 360° |
| Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon) | N/A | N/A | N/A | N/A |
| Residence time for reactive gases (seconds) | N/A | N/A | N/A | N/A |

| | | | | |
|--|------------------------|---|-----------------------|-----------------------|
| Will there be changes within the next 18 months? (Y/N) | No | No | No | No |
| Is it suitable for comparison against the annual PM2.5? (Y/N) | N/A | No, unless manual sampler has missing data. | N/A | Yes |
| Frequency of flow rate verification for manual PM samplers | N/A | N/A | Monthly | Monthly |
| Frequency of flow rate verification for automated PM analyzers | Monthly | Monthly | N/A | N/A |
| Frequency of one-point QC check for gaseous instruments | N/A | N/A | N/A | N/A |
| Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) | N/A | N/A | N/A | N/A |
| Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY) | 06/17/2016, 12/15/2016 | 06/17/2016, 12/15/2016 | 04/21/2016 11/10/2016 | 04/21/2016 11/10/2016 |

**Anaheim-Loara School
Site Photos**



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

**Anaheim-Loara School
Site Photos (Cont.)**



Looking at the probe from the North.



Looking at the probe from the East.



Looking at the probe from the South.



Looking at the probe from the West.